

## Vaillant VEH50 4-3 PRO

# Vaillant VEH50 4-3 PRO 50L ELOSTOR Electric Water Heater

## User Manual

### 1. INTRODUCTION

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This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Vaillant VEH50 4-3 PRO 50L ELOSTOR electric water heater. Please read these instructions carefully before installation and use, and keep them for future reference. Proper adherence to these guidelines will ensure optimal performance and longevity of your appliance.

### 2. SAFETY INFORMATION

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**Important:** Always observe local regulations and standards for electrical and plumbing installations. Installation and maintenance should only be performed by qualified professionals.

- Disconnect the power supply before any installation, maintenance, or repair work.
- Ensure the water heater is properly grounded.
- Do not operate the water heater if it is damaged or malfunctioning.
- Keep flammable materials away from the appliance.
- The water heater contains a safety thermostat and a hydraulic safety system to prevent overheating and overpressure. Do not tamper with these safety devices.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

### 3. PRODUCT OVERVIEW

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The Vaillant VEH50 4-3 PRO 50L ELOSTOR is a modern, efficient electric water heater designed to provide reliable hot water. It features a 50-liter capacity, coated heating elements for enhanced durability, and flexible

installation options. The appliance is equipped with advanced insulation to minimize heat loss and an anti-freeze protection system.



Image 3.1: Front view of the Vaillant VEH50 4-3 PRO 50L ELOSTOR Electric Water Heater.

## 4. SETUP (INSTALLATION)

The Vaillant VEH50 4-3 PRO 50L ELOSTOR water heater is designed for wall-mounted installation. It offers flexible installation, allowing for vertical or horizontal mounting without compromising performance. This flexibility applies to all Pro range models except the 30L version.

### 4.1 Mounting Location

Choose a suitable location that can support the weight of the water heater when full. Ensure adequate space for maintenance and access to connections. The location should be protected from freezing temperatures, although the unit has an anti-freeze function.

### 4.2 Dimensions and Connections

Refer to the diagram below for detailed dimensions and connection points. Ensure all plumbing and electrical connections are made according to local codes and by a certified professional.

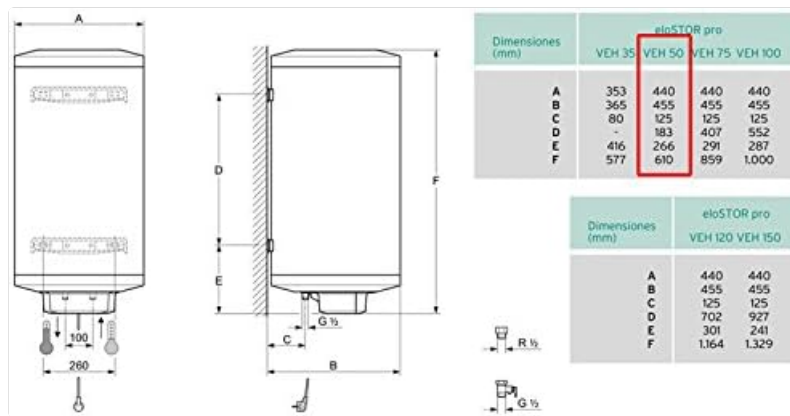


Image 4.1: Diagram showing the dimensions (in mm) and connection points for the Vaillant eloSTOR pro water heaters, with the VEH 50 model highlighted. Key dimensions include height (F), width (A), and depth (B).

For the VEH 50 model, the dimensions are approximately: Width (A) 440 mm, Depth (B) 455 mm, Height (F) 610 mm. The diagram also illustrates the water inlet and outlet connections (G ½).

### 4.3 Electrical Connection

Connect the water heater to a dedicated electrical circuit with appropriate overcurrent protection. The unit operates on 220 Volts (AC) and has a power rating of 2000 Watts. All electrical work must comply with national and local electrical codes.

## 5. OPERATING INSTRUCTIONS

Once installed and filled with water, the water heater is ready for operation. The unit is designed for user-friendly operation.

### 5.1 Initial Startup

1. Ensure the water heater is completely filled with water before switching on the power. Open a hot water tap to allow air to escape until water flows steadily.
2. Restore power to the unit. The water heater will begin heating the water to the set temperature.

### 5.2 Temperature Adjustment

Adjust the desired water temperature using the thermostat control, typically located on the front or bottom of the unit. Refer to the specific markings for temperature ranges. The unit has a temperature range of 7-70°C.

### 5.3 Anti-Freeze Protection

The water heater is equipped with an automatic anti-freeze protection system. If the internal water temperature drops to approximately 5°C, the heating element will activate to prevent freezing, even if the unit is not actively set to heat water.

## 6. MAINTENANCE

Regular maintenance ensures the efficient and safe operation of your Vaillant water heater. Disconnect power before performing any maintenance.

### 6.1 Descaling and Inspection

The Vaillant VEH50 4-3 PRO features coated heating elements, which are particularly recommended for areas with hard water as they reduce scale buildup and facilitate maintenance. However, periodic inspection and

descaling of the tank and heating element are still recommended, especially in very hard water areas. This should be performed by a qualified technician.

## 6.2 Anode Rod Check

The sacrificial anode rod protects the tank from corrosion. It should be inspected and replaced periodically by a qualified technician, typically every 1-3 years, depending on water quality.

## 6.3 Pressure Relief Valve

Periodically check the pressure relief valve (T&P valve) to ensure it is not blocked and is functioning correctly. Follow the manufacturer's instructions for testing the valve.

# 7. TROUBLESHOOTING

Before contacting customer support, review the following common issues and solutions.

Problem	Possible Cause	Solution
No hot water	No power; thermostat set too low; tripped circuit breaker; faulty heating element.	Check power supply and circuit breaker. Adjust thermostat. If problem persists, contact a qualified technician.
Insufficient hot water	Thermostat set too low; excessive hot water usage; sediment buildup.	Increase thermostat setting. Reduce hot water demand. Consider professional descaling.
Water too hot	Thermostat set too high; faulty thermostat.	Lower thermostat setting. If problem persists, contact a qualified technician.
Leaking from unit	Loose connections; faulty T&P valve; tank corrosion.	Tighten connections. Test or replace T&P valve. For tank corrosion, contact a qualified technician immediately.
Unusual noises	Sediment buildup in tank.	Professional descaling may be required.

For issues not listed or if solutions do not resolve the problem, contact Vaillant customer support or a certified service technician.

# 8. SPECIFICATIONS

Detailed technical specifications for the Vaillant VEH50 4-3 PRO 50L ELOSTOR electric water heater.

Specification	Value
Brand	Vaillant
Model Number	00 1002 3313
Capacity	50 Liters
Dimensions (L x W x H)	44 x 44 x 61 cm
Item Depth	455 millimeters

Specification	Value
Weight (empty)	18.2 kg
Power Source	Electric
Power	2000 Watts
Voltage	220 Volts (AC)
Material	Titanium
Max Flow Rate	7 Liters per minute
Energy Efficiency Class	C
Consumer Profile	M
Installation Type	Wall-mounted
Color	White
Special Features	Energy efficiency, flexible installation, coated heating elements for hard water

Características	Ud.	eloSTOR pro					
		VEH 30/4 -3	VEH 50/4 -3	VEH 75/4 -3	VEH 100/4 -3	VEH 120/4 -3	VEH 150/4 -3
Referencia		0010023312	0010023313	0010023314	0010023315	0010023316	0010023317
Capacidad real	l	30	50	82	100	120	144
Posición		Vertical	V / H	V / H	V / H	V / H	V / H
Clase ERP		C	C	C	C	C	C
Perfil ACS		S	M	L	L	XL	XL
Rango de temperaturas	°C	7-70	7-70	7-70	7-70	7-70	7-70
Potencia eléctrica	W	1.600	1.600	1.600	1.600	1.600	2.000
Tiempo calent. hasta 65°C	l/min	01:05	01:48	02:58	03:37	04:21	04:06
Conexión ACS	"	1/2	1/2	1/2	1/2	1/2	1/2
Presión máxima de funcionamiento	bar	9	9	9	9	9	9
Nivel de protección		IP24	IP24	IP24	IP24	IP24	IP24
Peso en vacío	kg	12,8	18,2	22,9	26,0	30,6	34,8

Image 8.1: Reference table showing characteristics for various Vaillant eloSTOR pro models, with the VEH 50/4-3 model highlighted, confirming specifications such as capacity, power, and weight.

## 9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official Vaillant website. In case of technical issues, questions, or to schedule service, please contact Vaillant customer support or your authorized dealer. Ensure you have your model number (VEH50 4-3 PRO) and manufacturer reference (00 1002 3313) available when contacting support.